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TECHNICAL STANDARD OPERATING PROCEDURE

Date: July 15, 1999 SOP No. MK-VBI70-07

Title: **Decontamination**

APPROVALS:

Morrison Knudsen Corporation

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SYNOPSIS: Provides procedures and instructions for decontamination of sampling equipment and field personnel.

Received by QA Unit

REVIEWS:

TEAM MEMBER	SIGNATURE/TITLE	DATE
EPA Region 8	Brenda Garke / RPM	7/24/99
Morrison Knudsen Corp.	Ellen Mott / Field QA Coordinator	7/16/99

REV.	DATE	REVISION DESCRIPTION

TECHNICAL STANDARD OPERATING PROCEDURE
DECONTAMINATION

1.0 PURPOSE

The purpose of this Standard Operating Procedure (SOP) is to provide instructions for decontamination of sampling equipment and field personnel. Decontamination is necessary to protect personnel and to minimize the potential for cross-contamination of samples. This procedure is to be used by MK employees assigned to the Vasquez Boulevard/I-70 project and their subcontractors.

2.0 SCOPE

This procedure covers activities associated with decontamination of sample equipment and personnel. Additional requirements for personnel decontamination may be specified in the Site Health and Safety Plan.

3.0 RESPONSIBILITIES

All Field Personnel will be responsible for performing personal and equipment decontamination after sampling at each location and at the end of the day in accordance with these procedures.

The **Field Supervisor** will be responsible for training field personnel in appropriate decontamination procedures as well as verifying implementation of this procedure through surveillance.

The **Site Manager** will be responsible for ensuring that all personnel are trained to this procedure.

4.0 DECONTAMINATION

4.1 Personnel will remove disposable gloves following collection of each sample. Gloves will contained in a plastic bag and disposed as municipal waste. All personnel and clothing will be inspected following sample collection at each property and, if necessary, decontaminated to remove any potential harmful substances that may have adhered to

them. Disposable, pre-moistened wipes will be available for personnel to wash their face and hands.

4.2 The equipment used for sample collection, including hand augers, bowls and trowels, will be decontaminated between samples collected for separate composites, between samples collected for discrete sampling and analysis, and following the last sample collection daily. Sampling equipment and tools will be decontaminated immediately following sample collection at the location/property from which the sample was collected by the following procedure:

- Wash with a low- or non-phosphate detergent and tap water using a brush as necessary
- Triple rinsed with deionized water
- After decontamination, equipment and tools will be protected by placing them in clean containers and taking care not to allow contact with surface soils

4.3 Sample preparation tools, including drying pans, sieves, and spatulas, will be decontaminated between samples by the following procedure:

- Wash with a low- or non-phosphate detergent and tap water
- Triple rinse with deionized water
- After decontamination, equipment and tools will be protected by placing them in clean containers and taking care not to allow contact with surface soils

4.4 Rinsate blanks will be collected at a rate of 5% (one in twenty decontaminations). The rinsate blank will be collected by pouring deionized water over decontaminated equipment and collecting the rinsate in a 500-mL certified clean polyethylene bottle. The sample will be preserved using nitric acid to pH<2, and submitted to an off-site laboratory for total arsenic and lead analyses.

4.5 Decontamination rinsate will be disposed in accordance with the Technical Standard Operating Procedure for Investigation Derived Waste Management.